

LISTING OF THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

1 8. (Previously Presented) An apparatus for use in a wellbore, comprising:
2 an element formed of a superplastic material to perform a predetermined
3 downhole task; and
4 an explosive component including the element.

1 9. (Original) The apparatus of claim 8, wherein the explosive component includes a
2 shaped charge.

1 10. (Previously Presented) An apparatus for use in a wellbore, comprising:
2 an element formed of a superplastic material to perform a predetermined
3 downhole task; and
4 a weak point connector including the element.

1 11. (Previously Presented) An apparatus for use in a wellbore, comprising:
2 an element formed of a superplastic material to perform a predetermined
3 downhole task; and
4 a heating device to heat the element to a temperature sufficient to cause the
5 element to exhibit superplastic behavior.

1 12. – 26. (Cancelled)

1 27. (Previously Presented) The apparatus of claim 2, wherein the element is adapted
2 to translate the seal into engagement with a downhole structure.

1 28. (Previously Presented) The apparatus of claim 27, comprising a packer.

1 29. (Previously Presented) The apparatus of claim 27, comprising a patch.

1 30. (Previously Presented) The apparatus of claim 27, further comprising a heating
2 device to heat the superplastic material to a temperature such that the element exhibits
3 superplastic behavior.

1 31. (Previously Presented) The apparatus of claim 30, further comprising a piston
2 adapted to cause translation of the element.

1 32. (Previously Presented) The apparatus of claim 30, wherein the heating device
2 comprises a propellant.

1 33. (Previously Presented) The apparatus of claim 2, further comprising a conduit,
2 wherein the element comprises a plug to block fluid flow in a bore of the conduit.

1 34. (Previously Presented) An apparatus for use in a wellbore, comprising:
2 an element formed of a superplastic material to perform a predetermined
3 downhole task;
4 a component including a seal engageable with the element;
5 a conduit, wherein the element comprises a plug to block fluid flow in a bore of
6 the conduit; and
7 a port to communicate fluid pressure to deform the plug inwardly to enable
8 movement of the plug.

1 35. (Previously Presented) The apparatus of claim 3, wherein the component
2 comprises a packer including the anchor.

1 36. (Previously Presented) The apparatus of claim 35, wherein the packer further
2 comprises a seal,
3 wherein the element comprises one or more sleeves attached to the anchor and the
4 seal, the one or more sleeves adapted to translate the anchor and seal into engagement with a
5 downhole structure.

1 37. (Previously Presented) An apparatus for use in a wellbore, comprising:
2 an element formed of a superplastic material to perform a predetermined
3 downhole task,
4 wherein the element is selected from the group consisting of a casing, a liner, a
5 tubing, and a pipe; and
6 a heating device to heat the element to a temperature such that the element
7 exhibits superplastic behavior.

1 38. (Previously Presented) The apparatus of claim 5, further comprising a heating
2 device to heat the sand screen to a temperature such that the sand screen exhibits superplastic
3 behavior.

1 39. (Previously Presented) The apparatus of claim 11, wherein the heating device
2 comprises a propellant.

1 40. (Previously Presented) An apparatus for use in a wellbore, comprising:
2 an element formed of a superplastic material to perform a predetermined
3 downhole task; and
4 a fishing tool for a downhole conduit structure, the fishing tool comprising the
5 element.

1 41. (Previously Presented) The apparatus of claim 40, wherein the element is adapted
2 to expand to engage an inner well of the conduit structure.

1 42. (Previously Presented) An apparatus for use in a wellbore, comprising:
2 an element formed of a superplastic material to perform a predetermined
3 downhole task;
4 a junction seal assembly comprising the element; and
5 a heating device to heat the element to a temperature such that the element
6 exhibits superplasticity.

1 43. (Previously Presented) The apparatus of claim 42, wherein the element comprises
2 one of a tubing and pipe to be inserted into a lateral wellbore.

1 44. (Previously Presented) The apparatus of claim 2, wherein the superplastic
2 material exhibits elongation to failure in excess of 200%.

1 45. (Previously Presented) The apparatus of claim 2, wherein the superplastic
2 material has a fine equi-axed grain structure that remains stable during deformation.

1 46. (Previously Presented) The apparatus of claim 45, wherein a grain size of the fine
2 equi-axed grain structure is in a range of 2 to 10 micrometers.

1 47. (Previously Presented) The apparatus of claim 3, wherein the superplastic
2 material exhibits elongation to failure in excess of 200%.

1 48. (Previously Presented) The apparatus of claim 3, wherein the superplastic
2 material has a fine equi-axed grain structure that remains stable during formation.

1 49. (Previously Presented) The apparatus of claim 48, wherein a grain size of the fine
2 equi-axed grain structure is in a range of 2 to 10 micrometers.